Directional Coupler

 50Ω

1 to 2000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Pormanant damage may eccur if any of	those limits are evecedes

Coaxial Connections

INPUT	1
OUTPUT	2
COUPLED.	3

Features

- very wideband, 1 to 2000 MHz
- excellent directivity, 30 dB typ.
- rugged shielded case

Applications

- cellular
- instrumentation
- communication receivers & transmitters
- GPS

ZFDC-10-5+

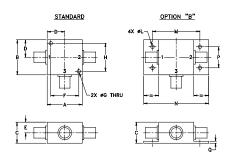


CASE STYLE: K18 Connectors Model ZFDC-10-5+ SMA ZFDC-10-5-S+ N-TYPF ZFDC-10-5-N+ BRACKET (OPTION"B")

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	E	F	G	Н
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	М	N	Р	Q	wt
J 	K 				P .75		

Directional Coupler Electrical Specifications

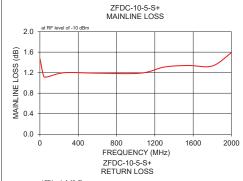
FREQ. RANGE (MHz)	(dB)			MAINLINE LOSS ¹ (dB)				DIRECTIVITY (dB)				VSWR (:1)	POWER INPUT (W)				
			L M		M	U		L		М		U			L	MU	
f _L -f _∪	Nom.	Flatness	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Max.	Max.
1-2000	10.8±0.5	±0.5	1.2	1.9	1.2	1.8	1.8	2.5	38	25	30	18	22	18	1.3	0.5	0.5

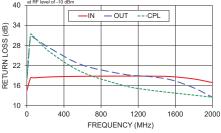
 $M = mid range [10 f_L to f_U/2]$ L = low range [f, to 10 f,] U= upper range [f,/2 to f,]

1. Mainline loss includes theoretical power loss at coupled port.

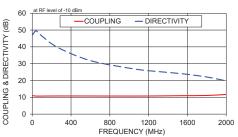
Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB) In Out		S Cpl	
1.00	1 47	<u> </u>	47.00				
1.00	1.47	11.03	47.08	14.55	18.01	18.03	
40.00	1.13	10.71	49.57	18.26	30.69	31.26	
80.00	1.12	10.70	47.38	18.32	30.20	30.46	
260.00	1.20	10.78	39.74	18.61	27.02	25.80	
600.00	1.19	10.77	31.82	18.79	22.14	19.98	
1050.00	1.19	10.73	26.87	18.84	19.38	15.98	
1300.00	1.31	10.81	25.29	18.83	18.76	14.75	
1550.00	1.34	10.96	23.98	18.70	17.75	13.90	
1800.00	1.33	11.08	22.06	17.99	15.32	13.15	
2000.00	1.59	11.68	19.78	16.91	12.53	12.52	

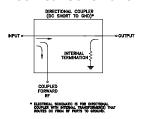




ZEDC-10-5-S+



Electrical Schematic



A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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